CHARGE NUMBER: 2501

PROGRAM TITLE: NUCLEAR AND RADIOCHEMISTRY OF SMOKE

PERIOD COVERED: April 1 - April 30, 1973

PROJECT LEADER: R. W. Jenkins, Jr.

DATE OF REPORT: May 8, 1973

A $^{14}CO_2$ "hot" growth run of tobacco has been started in the large chamber. Two burley and two bright tobacco plants are being used. All systems have operated satisfactorily and the plants have good color and growth.

Plant materials have been supplied for Project 1901 and 1801. Tobacco plants (16) were provided for the Tower dedication.

Experiments have been initiated to isolate neohesperidin, a promising synthetic sweetner, from "sour orange peel" as suggested by Dr. Ray Dawson.

The investigation of the hexane solubles of green tobacco tissue is continuing under various chromatographic conditions.

Commercial ^{14}C-phytol, previously shown to be uniformly labelled, has been used to check the new CDS system. The coefficient of variation was calculated to be 3.6, which compares very favorably with 3.1 from the previously used system.

Approximately sixty samples of MF blend have been analyzed for Project 1801 to determine the retention time and mixing in the ADT dryer. Duplicate runs showed a variation of three seconds in the retention time of the maximum concentration of added tracer.

In response to recent interest, procedures for the determination of ^{210}Pb in tobacco are being established.

REFERENCES

1.	R. Bass	5385
2.	M. Chavis	6037
3.	R. Comes	5521
4.	M. Core	6066
5.	M. Edmonds	6250
6.	B. Francis	6251
7.	G. Lester	5589
8.	G. Newell	5389
9.	R. Newman	4872

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